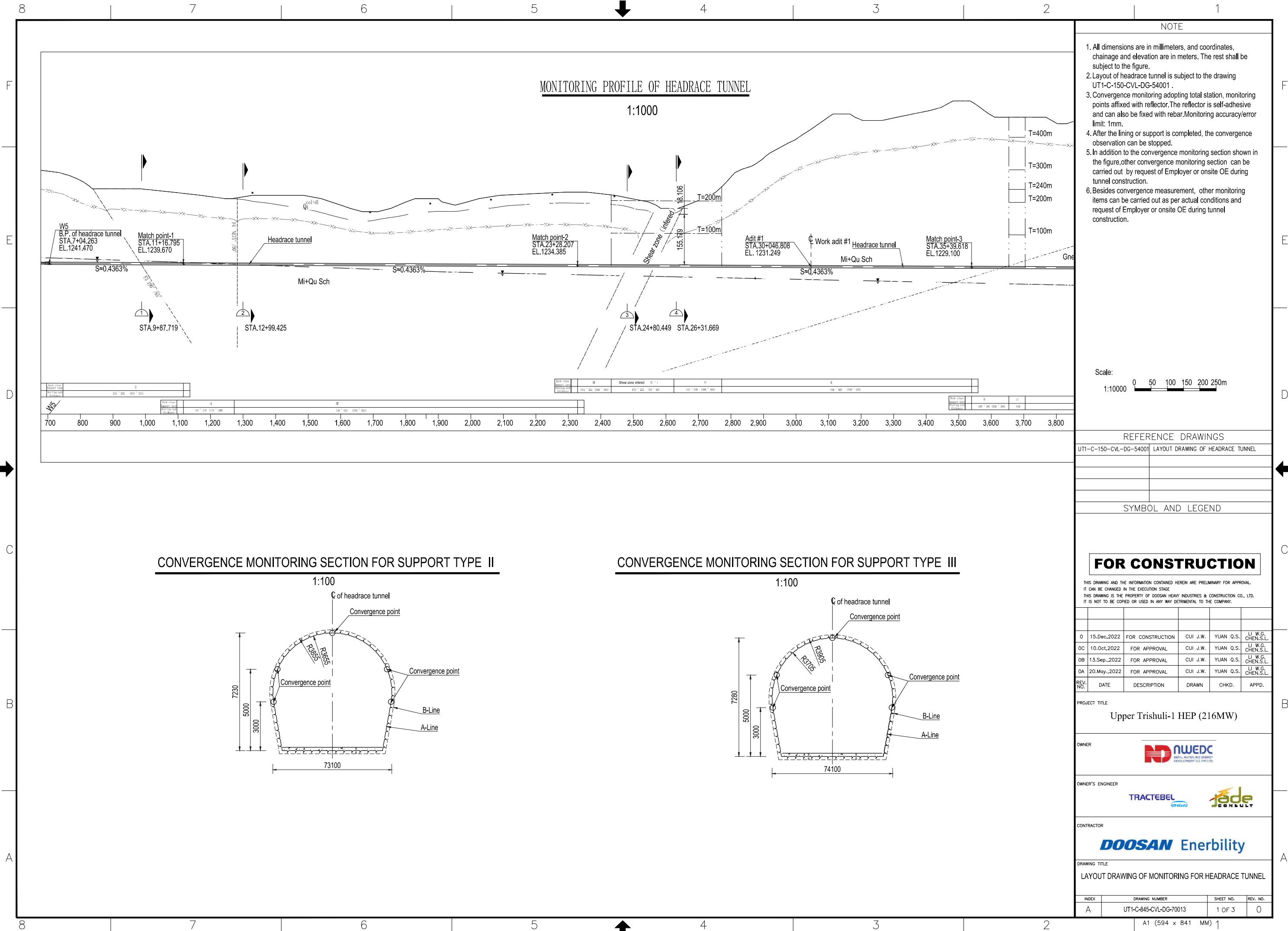
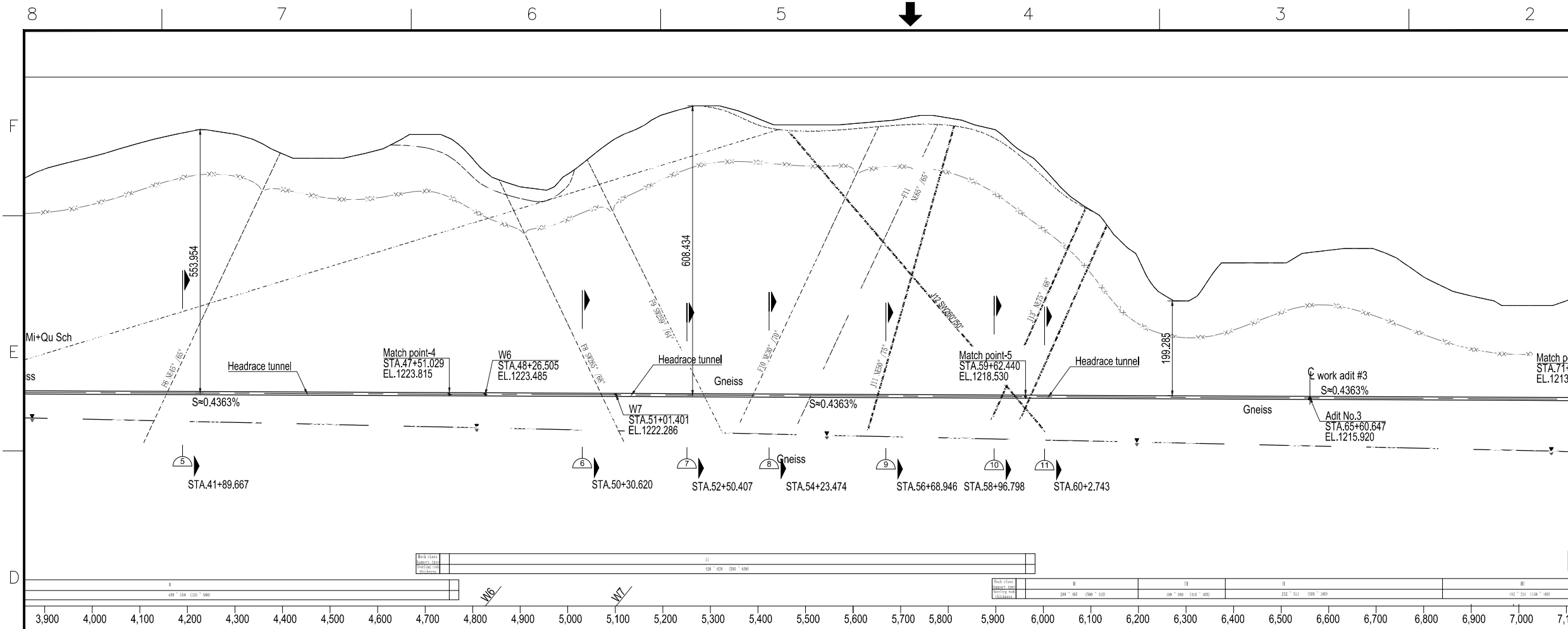
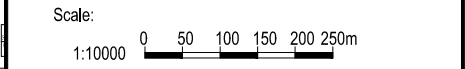






- NOTE
1. All dimensions are in millimeters, and coordinates, chainage and elevation are in meters. The rest shall be subject to the figure.
 2. Layout of headrace tunnel is subject to the drawing UT1-C-150-CVL-DG-54001.
 3. Convergence monitoring adopting total station, monitoring points affixed with reflector. The reflector is self-adhesive and can also be fixed with rebar. Monitoring accuracy/error limit: 1mm.
 4. After the lining or support is completed, the convergence observation can be stopped.
 5. In addition to the convergence monitoring section shown in the figure, other convergence monitoring section can be carried out by request of Employer or onsite OE during tunnel construction.
 6. Besides convergence measurement, other monitoring items can be carried out as per actual conditions and request of Employer or onsite OE during tunnel construction.



REFERENCE DRAWINGS	
UT1-C-150-CVL-DG-54001	LAYOUT DRAWING OF HEADRACE TUNNEL

SYMBOL AND LEGEND

FOR CONSTRUCTION

THIS DRAWING AND THE INFORMATION CONTAINED HEREIN ARE PRELIMINARY FOR APPROVAL. IT CAN BE CHANGED IN THE EXECUTION STAGE. THIS DRAWING IS THE PROPERTY OF DOOSAN HEAVY INDUSTRIES & CONSTRUCTION CO., LTD. IT IS NOT TO BE COPIED OR USED IN ANY WAY DETRIMENTAL TO THE COMPANY.

REV. NO.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0	15.Dec.2022	FOR CONSTRUCTION	CUI J.W.	YUAN Q.S.	LI W.G.
OC	10.Oct.2022	FOR APPROVAL	CUI J.W.	YUAN Q.S.	LI W.G.
OB	13.Sep.,2022	FOR APPROVAL	CUI J.W.	YUAN Q.S.	LI W.G.
OA	20.May.,2022	FOR APPROVAL	CUI J.W.	YUAN Q.S.	LI W.G.

PROJECT TITLE
Upper Trishuli-1 HEP (216MW)

OWNER
ND NWEDC
NARAYAN WATOL P.R.C. ENERGY DEVELOPMENT CO. (PVT) LTD.

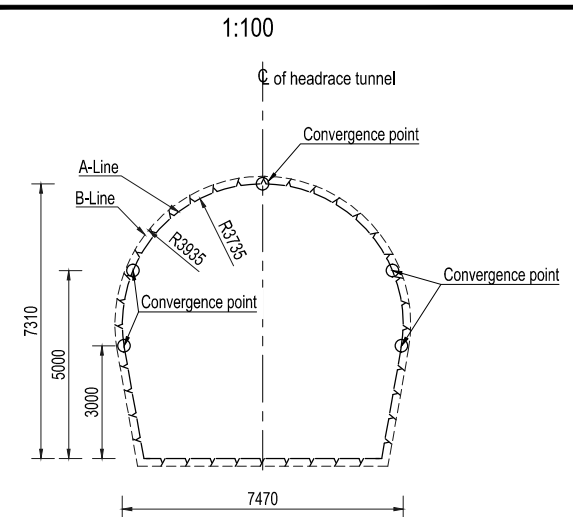
OWNER'S ENGINEER
TRACTEBEL **ENG** **ade CONSULT**

CONTRACTOR
DOOSAN Enerbility

DRAWING TITLE
LAYOUT DRAWING OF MONITORING FOR HEADRACE TUNNEL

INDEX	DRAWING NUMBER	SHEET NO.	REV. NO.
A	UT1-C-845-CVL-DG-70013	2 OF 3	0

CONVERGENCE MONITORING SECTION FOR SUPPORT TYPE IV



CONVERGENCE MONITORING SECTION FOR SUPPORT TYPE V (include shear zone)

